

B3  
second elongate shaft 926 slidably disposed within lumen 932 of first elongate shaft 924, which may function as the interstitial member described above. A third elongate shaft 970 is slidably disposed within a lumen defined by second elongate shaft 926. In the embodiment of figure 10, a proximal portion 945 of second elongate shaft 926 extends beyond proximal end 944 of first elongate shaft 924. Proximal portion 945 of second elongate shaft 926 terminates with a proximal end 946. Also in the embodiment of figure 10, a slider 942 is fixed to second elongate shaft 926 proximate proximal end 946 thereof. A portion of slider 942 is disposed within a cavity 948 defined by a housing 950. In a presently preferred embodiment, housing 950 is fixed to first elongate shaft 924 proximate proximal end 944 thereof. Also in a preferred embodiment, a plurality of indicia 952 are disposed on a face 955 of housing 950 proximate slider 942.

IN THE CLAIMS:

Please amend the following claims to read as follows.

- Sub D1  
B4
1. (Once Amended) A catheter shaft assembly, comprising:  
a first elongate shaft having an inner surface defining a lumen;  
a second elongate shaft having an outer surface,  
the second elongate shaft slidably disposed within the lumen of the first elongate shaft; and  
an interstitial member disposed between the inner surface of the first elongate shaft and the outer surface of the second elongate shaft,  
the interstitial member having a proximal end, a distal end, an inner surface, and an outer surface,  
the inner surface of the interstitial member facing the outer surface of the second elongate shaft and  
the inner surface of the interstitial member shaped to engage only a portion of the outer surface of the second elongate shaft between the proximal end of the interstitial member and the distal end of the interstitial member.

- B5  
Sub C3
8. (Once Amended) A catheter, comprising:

a first elongate shaft having an inner surface defining a lumen;

a second elongate shaft having an outer surface,

the second elongate shaft slidingly disposed within the lumen of the first elongate shaft;

an interstitial member disposed between the inner surface of the first elongate shaft and the outer surface of the second elongate shaft the interstitial member having a proximal end, a distal end, an inner surface, and an outer surface,

the inner surface of the interstitial member facing the outer surface of the second elongate shaft and

the inner surface of the interstitial member shaped to engage only a portion of the outer surface of the second elongate shaft between the proximal end of the interstitial member and the distal end of the interstitial member;

a housing coupled to the first elongate shaft proximate the proximal end thereof;

a slider disposed about the second elongate shaft proximate a proximal portion thereof wherein the slider is disposed within a chamber defined by the hub.

Sub D3  
B6  
15. (Once Amended) A catheter shaft assembly, comprising:

a first elongate shaft having an inner surface defining a lumen;

a second elongate shaft having an outer surface,

the second elongate shaft slidingly disposed within the lumen of the first elongate shaft;

an interstitial member disposed between the inner surface of the first elongate shaft and the outer surface of the second elongate shaft

the interstitial member having a proximal end, a distal end, an inner surface, and an outer surface,

the inner surface of the interstitial member facing the outer surface of the second elongate shaft and

the inner surface of the interstitial member shaped to engage only a portion of the outer surface of the second elongate shaft between the proximal end of the interstitial member and the distal end of the interstitial member;

a housing disposed about the first elongate shaft proximate the proximal end thereof;

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a slider disposed about the second elongate shaft proximate a proximal portion thereof wherein the slider is disposed within a chamber defined by the housing;  
a plurality of indicia disposed upon a surface of the housing proximate the slider;  
the second elongate shaft forming a point at the distal end thereof;  
the second elongate shaft defining an injection port proximate the point thereof;  
the second elongate shaft defining an injection lumen in fluid communication with the injection port;  
the injection lumen being in fluid communication with a fluid source; and  
wherein the fluid source is capable of injecting fluid into the injection lumen of the second elongate shaft.

20. (Once Amended) A catheter shaft assembly, comprising:

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a first elongate shaft having an inner surface defining a lumen;  
a second elongate shaft slidably disposed within the lumen of the first elongate shaft;  
at least one interstitial member disposed between the inner surface of the first elongate shaft and the outer surface of the second elongate shaft, wherein the at least one interstitial member comprises a radial rib extending beyond the inner surface of the first elongate shaft;  
a housing disposed about the first elongate shaft proximate the proximal end thereof;  
a slider disposed about the second elongate shaft proximate a proximal portion thereof wherein the slider is disposed within a chamber defined by the housing;  
a plurality of indicia disposed upon a surface of the housing proximate the slider;  
the second elongate shaft forming a point at the distal end thereof;  
the second elongate shaft defining an injection port proximate the point thereof;  
the second elongate shaft defining an injection lumen in fluid communication with the injection port,  
the injection lumen being in fluid communication with a fluid source; and  
wherein the fluid source is capable of injecting fluid into the injection lumen of the second elongate shaft.

IN THE DRAWINGS: